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the distal end. The number to each segment decreases both towards the proximal and distal ends of the cone-bearing region.

On examination of the only species of which I have living specimens just now, *C. propinquus*, I find the external branch of the antennula composed of eighteen or nineteen segments. The distal nine of these alone bear olfactory cones, and only five of them (the 11th, 12th, 13th, 14th, 15th), have the full number of eight on each joint, so that *O. pellucidus* would appear to form no exception to the rule which has been noted above as to the European "Cave" Crustacea.—R. R. W.

STERNBERG'S PHOTOMICROGRAPHS AND HOW TO MAKE THEM.¹—

Many a naturalist who may be unskilled in drawing, or who may desire to reproduce by photography histological preparations, will be thankful for this excellent work, which so describes the technique of photomicrography as to enable one familiar with the use of the microscope to make photomicrographs with the least expenditure of time and money. The author, who is well known for his researches on disease-germs, has designed the work for beginners, who, like the author, had resorted to photography for the purpose of making pictorial memoranda of his microscopical observations.

The first part of the book is devoted to technology, and considers light, microscopical apparatus, the camera and photographic material, the arrangement of microscope and camera for photography, the operating room and fixtures, etc., the exposure and development of the plate, the fixing, intensification and preservation of the negative, as well as photographing by reflected light, and making positives upon glass. This part concludes with chapters upon the selection and preparation of objects for photographing.

The second part is devoted to a description of plates, and to a popular account of elementary histology, containing accounts of the Amœba, of Micrococci, of one-celled algæ, of epithelial and other cells, blood-discs and of vegetable cells and diatoms, the microphotographs being excellent. The book is a timely and useful one, and though the plates are very useful as examples of excellent work, we are not sure that it would not have given more unity to the book to have issued the second part as a separate work. At any rate there will doubtless be a good demand for such a hand-book as the present one. It is well printed and illustrated.

MISS BUCKLEY'S LIFE AND HER CHILDREN.²—The title of this

¹*Photomicrographs and how to make them.* Illustrated by forty-seven Photographs of Microscopic objects, reproduced by the Heliotype process. By GEORGE M. STERNBERG, M.D., U.S.A., etc. Boston, J. R. Osgood & Co., 1883. 8vo, pp. 204.

²*Life and Her Children.* Glimpses of Animal Life from the Amœba to the Insects. By ARABELLA B. BUCKLEY. 100 cuts. New York, D. Appleton & Co., 1883. 12mo, pp. 312, \$1.50.